

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

LOUISIANA SECTION.

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VOL. XX NEW ORLEANS, LA., AUGUST, 1915. No. 8

GENERAL SUMMARY.

Warm weather prevailed during the first decade, but after the 10th temperatures were more moderate and except at a few stations in the southeastern parishes the monthly means were below the normal. The precipitation was generally above the normal in the western and below the normal in the eastern portion of the State. There were no well defined periods of precipitation, rain being reported from one or more stations on every day in the month, except the 5th and 31st, but the greatest amounts occurred generally from the 15th to 20th in connection with the tropical hurricane which moved northward over eastern Texas during that time. The amounts at some of the stations in the western parishes were excessive and caused floods in the smaller streams in that section. Except for a small amount of damage due to the rain and high winds, the weather was generally favorable for crops and for farm work and agricultural pursuits made good progress.

PRESSURE.

Except that the tropical disturbance which skirted the coast on the 15-16th and passed near the western border of the State on the 17-20th, gave pressures considerably below the average and caused general rains and considerable high wind, the barometric pressure ranged nearly normal during the month.

The average pressure, reduced to sea level, determined from the records of three stations, was 29.95 inches. The highest recorded was 30.21 inches, at Shreveport, on the 31st, and the lowest was 29.59 inches, at Shreveport, on the 19th.

TEMPERATURE.

The monthly mean, determined from the records of 53 stations, was 80.8°, which is the same as the mean for August, 1914, and 1.0° below the normal. The highest temperature recorded, 105°, occurred at Angola, in West Feliciana Parish, on the 1st, and the lowest, 51°, occurred at St. Francisville, in West Feliciana Parish, and at Robeline, in Natchitoches Parish, on the 31st. The monthly maximum temperatures occurred generally during the first decade, while the lowest readings were reported from a majority of stations on the 5th or 31st.

PRECIPITATION.

The precipitation for the State averaged above the normal, although there were some deficiencies in the eastern portion. The average precipitation, determined from the records of 60 stations,

was 6.78 inches, being about 1.60 inches above the normal. The greatest monthly amount, 17.38 inches, occurred at Merryville, in Beauregard Parish, and the least, 1.24 inches, occurred at Tallulah (near), in Madison Parish. The greatest amount in 24 hours, 8.71 inches, occurred at Merryville, on the 17-18th. The average number of days with 0.01 inch, or more, was 10.

WIND.

Stations.	Total movement, miles.	Average hourly velocity.	Maximum Vel.	Direction.	Date.
New Orleans.....	5,072	6.8	32	se.	16
Shreveport.....	4,945	6.6	30	e.	17
Vicksburg, Miss.....	4,709	6.3	28	w.	20

HUMIDITY.

STATIONS.	7 a. m.	7 p. m.	Monthly.
New Orleans.....	84.0	69.2	76.6
Shreveport.....	89.3	71.1	80.2
Vicksburg, Miss.....	87.3	69.3	78.3

SUNSHINE AND CLOUDINESS.

Totalsunshine, hours: New Orleans, 280.7; Vicksburg, 249.5.  
Total possible, hours: New Orleans, 409.3; Vicksburg, 412.3.  
Percentage of possible: New Orleans, 69; Vicksburg, 61.

MISCELLANEOUS PHENOMENA.

Thunderstorms.—(Dates). Abbeville, 3, 9, 10, 13; Amite, 11; Burwood, 3, 7, 10, 11, 12, 30; Clinton, 6, 7, 9, 10, 11, 14, 24; Collinston, 1, 9, 10; Covington, 6; Grand Coteau, 3, 7, 9, 10, 13, 14, 20, 23, 28, 29; Jennings, 19; Kelley (near), 1; Melville, 19; New Orleans (No. 1), 3, 6, 9, 11, 13, 14, 16, 20; Rayne, 3, 8, 10, 13, 14, 19, 22, 29; St. Francisville, 20; Shreveport, 6, 9, 10, 13, 14, 18, 22, 24, 26.

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.				Precipitation.			
	Mean.	Departure.	Maximum.	Minimum.	Mean.	Departure.	Greatest.	Least.
1891.....	79.4	-2.4	102	45	2.36	-1.83	5.34	0.20
1892.....	80.5	-1.3	100	53	5.76	+1.57	9.76	2.10
1893.....	80.0	+1.0	101	52	4.97	+0.69	11.25	1.63
1894.....	79.2	-0.7	100	55	6.52	+0.90	12.46	2.20
1895.....	81.5	+1.4	101	63	5.28	-0.80	9.74	0.53
1896.....	83.2	+2.7	110	48	3.10	-2.20	8.99	0.77
1897.....	81.2	+0.7	109	58	5.84	+0.48	13.46	0.63
1898.....	81.0	+0.3	102	53	6.26	+1.30	14.39	1.39
1899.....	83.3	+2.3	108	60	4.55	-0.83	10.61	0.61
1900.....	81.4	+0.4	100	60	4.59	-0.68	12.65	1.06
1901.....	81.9	+0.7	105	52	5.46	+0.47	14.74	1.86
1902.....	84.1	+2.9	107	61	3.47	-1.76	9.69	0.02
1903.....	81.7	+0.4	101	56	4.71	-0.74	11.12	1.80
1904.....	80.2	-1.2	102	53	5.19	+0.29	13.31	1.66
1905.....	82.6	+1.2	104	60	4.82	-0.22	13.56	1.30
1906.....	82.1	+0.6	105	52	2.92	-2.09	8.02	0.25
1907.....	82.8	+1.3	105	61	4.66	-0.40	10.11	0.44
1908.....	81.3	-0.2	104	60	6.61	+1.88	14.80	2.18
1909.....	82.8	+1.4	112	63	6.12	+1.55	13.72	1.32
1910.....	82.8	+1.3	105	61	4.42	-0.51	10.63	0.50
1911.....	81.5	-0.1	106	52	8.01	+3.63	18.79	2.57
1912.....	81.3	-0.1	104	51	5.89	+1.13	13.45	1.05
1913.....	81.7	-0.2	104	54	4.47	-0.42	10.68	0.94
1914.....	80.8	-1.1	106	59	7.48	+2.84	14.46	3.91
1915.....	80.8	-1.0	105	51	6.78	+1.60	17.38	1.24

Climatological Data for August, 1915.

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, With precip. 0.01 inch or more), No. of days (Clear, Partly cloudy, Cloudy), Prevailing direction of wind, Observers.

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc. †Also on other dates. ††Received too late to be included in means and summaries. \*Not included in State means and extremes. ‡Precipitation is less than 0.01 inch rain or melted snow. ††Postoffice addresses of these stations are as follows: Of Avoca Island, Morgan City, La.; of La Rose (near), Lockport, La.; R. F. D. No. 1.; of Richland Plantation, Alexandria, La.; of Tallulah (near), Maudsford, La.

Daily Precipitation for August, 1915.

Stations.	Day of month.																															Total.						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
Abbeville	.01			1.02				T.		.18	.87	.07		.23	.05	.60	1.40	.15	.08	0.8	2.10	.35															7.14	
Alexandria	(R)	.42	.10					T.			.35																									4.02		
Amite		.60		.20					.20		1.40	T.			.85	.20	.15	.30	.05	1.20	.10															5.30		
Angola								T.			.70				2.00	.50	.30	.50	T.	.50	.40		1.90													7.05		
Antioch	(R)			.02							.85	.46			1.04	1.50	.45	.78	2.61	.11		.06	.06													6.21		
Avoca Island			.50				.03	.63		.57	.48	.46			.30	1.50	.54		.05			3.56														7.48		
Baton Rouge			.28				.03		.01	.93	2.40	.77			.75	.33	2.64	.18	.01	.06	.65															6.30		
Burrwood			.25				.03			.40					.17		1.07	.48	.06	1.61	.02	.16	.75	T.												8.05		
Cades			.84							.01						1.41	.25	1.39				.30															4.47	
Calhoun	(O)	.30																							.01	.06	.08						.10				4.75	
Cameron																																						
Cheneyville	(R)								.25		.40	.10					1.10	.18	.20	1.00			.07										.56		.14		4.00	
Cinclare			.40			.06			.27	T.					.95	.40	.25		T.	.87			.56	.25												5.03		
Clinton										.07	1.20	T.			.40	.07			.43	.05	1.45	.32	T.	1.03	.18												4.68	
Collinston	(O)	.76		.26											1.05			.57	.30	.70	1.10																4.39	
Covington		T.	T.		.50				1.05	T.						.10	1.15					T.	T.	1.05	.20	T.	T.										4.98	
De Ridder										.27					.20		5.00	.75	1.50	2.00															.27		9.99	
Dodson	(R)									.05						.18	.55	1.53					.32														3.51	
Donaldsonville		T.		1.47					.31						.85	.09	.55	.35	T.	.10	.43	.49	.07	.06												5.25		
Dutchtown			.60							.46	.53					.22	.58	T.				.55	.15	.42		.25										3.76		
Farmerville	(O)	.33								.58	.28				.76																				.15		4.82	
Florence																																						
Franklin		.47		1.08	.42					.16	.82	.52	.30	T.	.01	.21	.57	.50			.02	.27	.74	.54												6.63		
Franklinton	(P)		.51						2.10		.10	1.71			.21		1.23	.36	.57																		8.13	
Grand Cane	(R)										.88				.09		.21		3.50	.20														1.70	.36	.15		7.09
Grand Coteau			.04							.04	.08			.14	.31		.70	.25	.22	.04	2.10	.36	1.46	2.61		.51											10.08	
Hammond			.15								2.00					.25	T.	1.65				.40	.15	.20		.40											5.20	
Houma		.50		.10					1.10						.98		1.10	1.40	.25																		7.63	
Jennerette																																						
Jennings		.16	.93		1.14			.03			.51	.30					.08	3.40	.20	13	2.38		.14														10.42	
Kelly (near)	(O)														1.15		.53	.18	.91	.08	.05	.11		.30											.06	.90		2.57
Lafayette				.23							.23																											18
Lake Charles		.10	.25		.10						1.40						4.12	1.00	1.05	.50			2.20														15.05	
Lakeside				.80							2.35	.40				.10	1.20	1.30																			7.45	
La Rose (near)																																						
Lawrence											.14	1.60				.47	1.80	.25				.33															4.77	
Liberty Hill	(R)											T.		.06	.08	.10			1.88	2.92	.13													.13		.05		5.74
Logansport	(S)										.78				.34		.91	7.57	4.65	1.12															.98		15.85	
Melville	(R)			.73							.25	.06			.75	.06	.51	.60	.02	1.42	T.		.65	.08													5.25	
Merryville	(S)			.77							.82						5.00	3.71	7.08	T.																	17.38	
Minden	(R)	1.00		.05							.10				.65	.04		.55	3.90	.50																	7.61	
Monroe	(O)	.10	.30	1.25							.04	.35			T.	.01		.20	.42	1.90																	5.51	
Morgan City		.52	.28		.60						.07	.71	.58			.25	.53	.33																			7.11	
Mound	(R)																																					
Napoleonville				.45							.05	.31				.96	.62	1.24	.11				.48	.12													4.34	
Newellton	(M)						.78				.38					.05		.08	.55	.25																	2.09	
New Iberia			.63					1.00			.35	.40	T.	T.	1.37	T.	1.10	.50	T.		.15	1.75	.10		.75											8.10		
NEW ORLEANS-1.***			T.			.12					T.				2.33	.02	.17	.49	.19	1.13	.01	.08															7.22	
New Orleans-2							.129				2.17				3.39	.07		1.26		1.65		.01															12.15	
New Orleans-3							.78				.76				2.29	.08	.01	.27	.10	1.42																	6.55	
New Orleans-5							1.65				.06				1.27	.22	1.63	.05																				10.42
New Orleans-6							.13								.06	.48	.12	1.06		.03																	6.85	
New Orleans-7							.25				2.44				.22	2.44		.37	.13	.98																	5.55	
New Orleans-8											2.14	.05	.44	.73		1.22																					6.09	
Opelousas		.29	T.		.22						.70	.15	T.		.51	.23		.37	.36	.25	1.61															6.33		
Paradis																																						
Pearl River	(P)	.20			T.				1.68						1.20																							6.02
Plain Dealing	(R)		.27								1.45				.60				1.11	3.10	3.81	.04															11.00	
Rayne				.10							.80				.10	.25	2.02	.25	.20	.20	.75																6.25	
Reserve											.14	.69				1.20	1.30																				3.53	
Richland Plantation	(R)	.18									.95				.17		T.	.38	.20	1.10	1.54																5.52	
Robeline	(R)										1.00							.70	2.45	4.00	2.60																12.95	
Ruston	(O)																																					

Daily Temperatures for August, 1915.

Table with columns for Stations, days 1-31, and Mean. Rows list various Louisiana locations such as Abbeville, Alexandria, Amite, Angola, Antioch, Baton Rouge, Burrwood, Cades, Calhoun, Cameron, Carrollton, Cheneyville, Chiclare, Clinton, Collinston, Covington, Dodson, Donaldsonville, Farmerville, Florence, Franklin, Franklinton, Grand Cane, Grand Coteau, Hammond, Houma, Jennings, Kelly, Lafayette, Lake Charles, Lakeside, Lawrence, Liberty Hill, Melville, Minden, Monroe, Napoleonville, Newellton, New Iberia, New Orleans-1, Opelousas, Plain Dealing, Rayne, Reserve, Robeline, Ruston, St. Francisville, St. Gabriel, Schriever, Shreveport, Sugartown, Tallulah.

a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, in which it almost always occurs.